RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _/0/582,6/3_
Source: _1FWP_
Date Processed by STIC: _6/21/06_

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/582,613_   CRF Edit Date: _6/23/06_
                                      Edited by: _AV_

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

_/_ Deleted: _/_ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

____ Other:
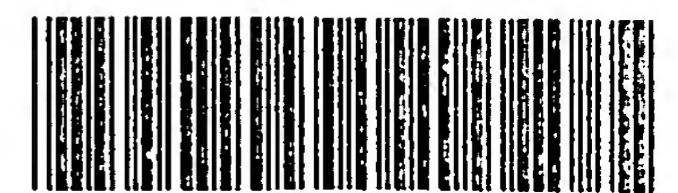
_____
_____
_____

```
          RAW SEQUENCE LISTING                      DATE: 06/23/2006
          PATENT APPLICATION:  US/10/582,613        TIME: 11:17:04

          Input Set : A:\PTO.AMC.txt
          Output Set: N:\CRF4\06232006\J582613.raw

      3  <110> APPLICANT: Institut Pasteur
      4        Institut National de la Sante et de la Recherche Medicale (INSERM)
      5        LIM Annick Michele Yvonne
      6        LEMERCIER Brigitte Marie-Christine Renee
      7        KOURILSKY Philippe
      8        HUETZ Francois Andre
     10  <120> TITLE OF INVENTION: Repertoire determination of a lymphocyte B population
     12  <130> FILE REFERENCE: D21747
C--> 14  <140> CURRENT APPLICATION NUMBER: US/10/582,613
C--> 14  <141> CURRENT FILING DATE: 2006-06-12
     14  <150> PRIOR APPLICATION NUMBER: PCT/IB2004/004413
     15  <151> PRIOR FILING DATE: 2004-12-15
     17  <150> PRIOR APPLICATION NUMBER: EP 03/293,159
     18  <151> PRIOR FILING DATE: 2003-12-15
     20  <150> PRIOR APPLICATION NUMBER: US 10/734,622
     21  <151> PRIOR FILING DATE: 2003-12-15
     23  <160> NUMBER OF SEQ ID NOS: 47
     25  <170> SOFTWARE: PatentIn version 3.2
     27  <210> SEQ ID NO: 1
     28  <211> LENGTH: 21
     29  <212> TYPE: DNA
     30  <213> ORGANISM: Artificial
     32  <220> FEATURE:
     33  <221> NAME/KEY: source
     34  <222> LOCATION: (1)..(21)
     35  <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
HUMVH1a
     36        specific for the nucleic acid encoding a VH segment of the VH1
     37        subgroup"
     39  <400> SEQUENCE: 1
     40  agtgaaggtc tcctgcaagg c                                              21
     43  <210> SEQ ID NO: 2
     44  <211> LENGTH: 21
     45  <212> TYPE: DNA
     46  <213> ORGANISM: Artificial
     48  <220> FEATURE:
     49  <221> NAME/KEY: source
     50  <222> LOCATION: (1)..(21)
     51  <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
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     52        specific for the nucleic acid encoding a VH segment of the VH1
     53        subgroup"
     55  <400> SEQUENCE: 2
     56  agtgaaggtt tcctgcaagg c                                              21
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59 <210> SEQ ID NO: 3

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 60 <211> LENGTH: 21
 61 <212> TYPE: DNA
 62 <213> ORGANISM: Artificial
 64 <220> FEATURE:
 65 <221> NAME/KEY: source
 66 <222> LOCATION: (1)..(21)
 67 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
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 68       specific for the nucleic acid encoding a VH segment of the VH1
 69       subgroup"
 71 <400> SEQUENCE: 3
 72 agtgaarrtc tcctgcaagg t                                         21
 75 <210> SEQ ID NO: 4
 76 <211> LENGTH: 19
 77 <212> TYPE: DNA
 78 <213> ORGANISM: Artificial
 80 <220> FEATURE:
 81 <221> NAME/KEY: source
 82 <222> LOCATION: (1)..(19)
 83 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
HUMVH2
 84       specific for the nucleic acid encoding a VH segment of the VH2
 85       subgroup"
 87 <400> SEQUENCE: 4
 88 aacccacasa gaccctcac                                            19
 91 <210> SEQ ID NO: 5
 92 <211> LENGTH: 24
 93 <212> TYPE: DNA
 94 <213> ORGANISM: Artificial
 96 <220> FEATURE:
 97 <221> NAME/KEY: source
 98 <222> LOCATION: (1)..(24)
 99 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
100       HUMVH3aa specific for the nucleic acid encoding a VH segment of
101       the VH3a subgroup"
103 <400> SEQUENCE: 5
104 gcagattcac catctcaaga gatg                                      24
107 <210> SEQ ID NO: 6
108 <211> LENGTH: 24
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial
112 <220> FEATURE:
113 <221> NAME/KEY: source
114 <222> LOCATION: (1)..(24)
115 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
116       HUMVH3ab specific for the nucleic acid encoding a VH segment of
117       the VH3a subgroup"
119 <400> SEQUENCE: 6
120 gcaggttcac catctccaga gatg                                      24
123 <210> SEQ ID NO: 7
124 <211> LENGTH: 22
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126 <213> ORGANISM: Artificial
128 <220> FEATURE:
129 <221> NAME/KEY: source
130 <222> LOCATION: (1)..(22)
131 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
132     HUMVH3ba specific for the nucleic acid encoding a VH segment of
133     the VH3b subgroup"
135 <400> SEQUENCE: 7
136 gccgattcac catctccaga ga                                          22
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 22
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial
144 <220> FEATURE:
145 <221> NAME/KEY: source
146 <222> LOCATION: (1)..(22)
147 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
148     HUMVH3bb specific for the nucleic acid encoding a VH segment of
149     the VH3b subgroup"
151 <400> SEQUENCE: 8
152 gcagattcac catctccaga ga                                          22
155 <210> SEQ ID NO: 9
156 <211> LENGTH: 22
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial
160 <220> FEATURE:
161 <221> NAME/KEY: source
162 <222> LOCATION: (1)..(22)
163 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
164     HUMVH3bc specific for the nucleic acid encoding a VH segment of
165     the VH3b subgroup"
167 <400> SEQUENCE: 9
168 gccgattcac catctccagg ga                                          22
171 <210> SEQ ID NO: 10
172 <211> LENGTH: 22
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial
176 <220> FEATURE:
177 <221> NAME/KEY: source
178 <222> LOCATION: (1)..(22)
179 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
180     HUMVH3bd specific for the nucleic acid encoding a VH segment of
181     the VH3b subgroup"
183 <400> SEQUENCE: 10
184 gcaggttcac catctccaga ga                                          22
187 <210> SEQ ID NO: 11
188 <211> LENGTH: 22
189 <212> TYPE: DNA
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190 <213> ORGANISM: Artificial
192 <220> FEATURE:
193 <221> NAME/KEY: source
194 <222> LOCATION: (1)..(22)
195 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
HUMVH4a
196       specific for the nucleic acid encoding a VH segment of the VH4
197       subgroup"
199 <400> SEQUENCE: 11
200 ctacaacccg tccctcaaga gt                                    22
203 <210> SEQ ID NO: 12
204 <211> LENGTH: 22
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial
208 <220> FEATURE:
209 <221> NAME/KEY: source
210 <222> LOCATION: (1)..(22)
211 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
HUMVH4b
212       specific for the nucleic acid encoding a VH segment of the VH4
213       subgroup"
215 <400> SEQUENCE: 12
216 ctacaacccc tccctcaaga gt                                    22
219 <210> SEQ ID NO: 13
220 <211> LENGTH: 18
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial
224 <220> FEATURE:
225 <221> NAME/KEY: source
226 <222> LOCATION: (1)..(18)
227 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
HUMVH5
228       specific for the nucleic acid encoding a VH segment of the VH5
229       subgroup"
231 <400> SEQUENCE: 13
232 gtgaaaaagc ccggggag                                         18
235 <210> SEQ ID NO: 14
236 <211> LENGTH: 18
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial
240 <220> FEATURE:
241 <221> NAME/KEY: source
242 <222> LOCATION: (1)..(18)
243 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
HUMVH6
244       specific for the nucleic acid encoding a VH segment of the VH6
245       subgroup"
247 <400> SEQUENCE: 14
248 tccggggaca gtgtctct                                         18
251 <210> SEQ ID NO: 15
252 <211> LENGTH: 21
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial
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RAW SEQUENCE LISTING   DATE: 06/23/2006
PATENT APPLICATION: US/10/582,613   TIME: 11:17:04

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\06232006\J582613.raw**

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256 <220> FEATURE:
257 <221> NAME/KEY: source
258 <222> LOCATION: (1)..(21)
259 <223> OTHER INFORMATION: /note="description of artificial sequence: Forward primer
HUMVH7
260      specific for the nucleic acid encoding a VH segment of the VH7
261      subgroup"
263 <400> SEQUENCE: 15
264 ggtgcaatct gggtctgagt t                                          21
267 <210> SEQ ID NO: 16
268 <211> LENGTH: 17
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial
272 <220> FEATURE:
273 <221> NAME/KEY: source
274 <222> LOCATION: (1)..(17)
275 <223> OTHER INFORMATION: /note="description of artificial sequence: Reverse primer
IGJH1
276      specific for the nucleic acid encoding a JH segment of the JH1
277      subgroup"
279 <400> SEQUENCE: 16
280 ccctggcccc agtgctg                                               17
283 <210> SEQ ID NO: 17
284 <211> LENGTH: 18
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial
288 <220> FEATURE:
289 <221> NAME/KEY: source
290 <222> LOCATION: (1)..(18)
291 <223> OTHER INFORMATION: /note="description of artificial sequence: Reverse primer
IGJH2
292      specific for the nucleic acid encoding a JH segment of the JH2
293      subgroup"
295 <400> SEQUENCE: 17
296 ccacggcccc agagatcg                                              18
299 <210> SEQ ID NO: 18
300 <211> LENGTH: 23
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial
304 <220> FEATURE:
305 <221> NAME/KEY: source
306 <222> LOCATION: (1)..(23)
307 <223> OTHER INFORMATION: /note="description of artificial sequence: Reverse primer
IGJH3
308      specific for the nucleic acid encoding a JH segment of the JH3
309      subgroup"
311 <400> SEQUENCE: 18
312 cccttggccc cagayatcaa aag                                        23
315 <210> SEQ ID NO: 19
316 <211> LENGTH: 19
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial
320 <220> FEATURE:
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/23/2006
PATENT APPLICATION: US/10/582,613   TIME: 11:17:05

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\06232006\J582613.raw**

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47

VERIFICATION SUMMARY   DATE: 06/23/2006
PATENT APPLICATION: **US/10/582,613**   TIME: 11:17:05

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\06232006\J582613.raw**

```
L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
```

Raw Sequence Listing before editing (for reference only)
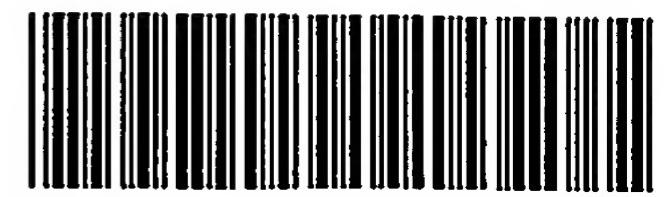
IFWP

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RAW SEQUENCE LISTING                      DATE: 06/21/2006
PATENT APPLICATION:  US/10/582,613        TIME: 11:22:59

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\06212006\J582613.raw
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```
 3 <110> APPLICANT: Institut Pasteur
 4       Institut National de la Sante et de la Recherche Medicale (INSERM)
 5       LIM Annick Michele Yvonne
 6       LEMERCIER Brigitte Marie-Christine Renee
 7       KOURILSKY Philippe
 8       HUETZ Francois Andre
10 <120> TITLE OF INVENTION: Repertoire determination of a lymphocyte B population
12 <130> FILE REFERENCE: D21747
```
C--> 14 `<140> CURRENT APPLICATION NUMBER: US/10/582,613`
C--> 15 `<141> CURRENT FILING DATE: 2006-06-12`
```
17 <150> PRIOR APPLICATION NUMBER: EP 03/293,159
18 <151> PRIOR FILING DATE: 2003-12-15
20 <150> PRIOR APPLICATION NUMBER: US 10/734,622
21 <151> PRIOR FILING DATE: 2003-12-15
23 <160> NUMBER OF SEQ ID NOS: 47
25 <170> SOFTWARE: PatentIn version 3.2
```

ERRORED SEQUENCES

**Does Not Comply
Corrected Diskette Needed**

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773 <210> SEQ ID NO: 47
774 <211> LENGTH: 21
775 <212> TYPE: DNA
776 <213> ORGANISM: Artificial
778 <220> FEATURE:
779 <221> NAME/KEY: source
780 <222> LOCATION: 1..21
782 <223> OTHER INFORMATION: /note="Description of artificial sequence: VH4 internal
783       forward primer specific for the nucleic acid encoding
784       a VH segment of the VH4 subgroup
786 <400> SEQUENCE: 47
787 ctcacctgcr ctgtctctgg t                                              21
```
E--> 797 (1

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/21/2006
PATENT APPLICATION: US/10/582,613   TIME: 11:23:01

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\06212006\J582613.raw**

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47

VERIFICATION SUMMARY   DATE: 06/21/2006
PATENT APPLICATION: **US/10/582,613**   TIME: 11:23:01

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\06212006\J582613.raw**

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:797 M:254 E: No. of Bases conflict, this line has no nucleotides.